

ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

$\sqrt{-9}$ is an example of a(an) _____.

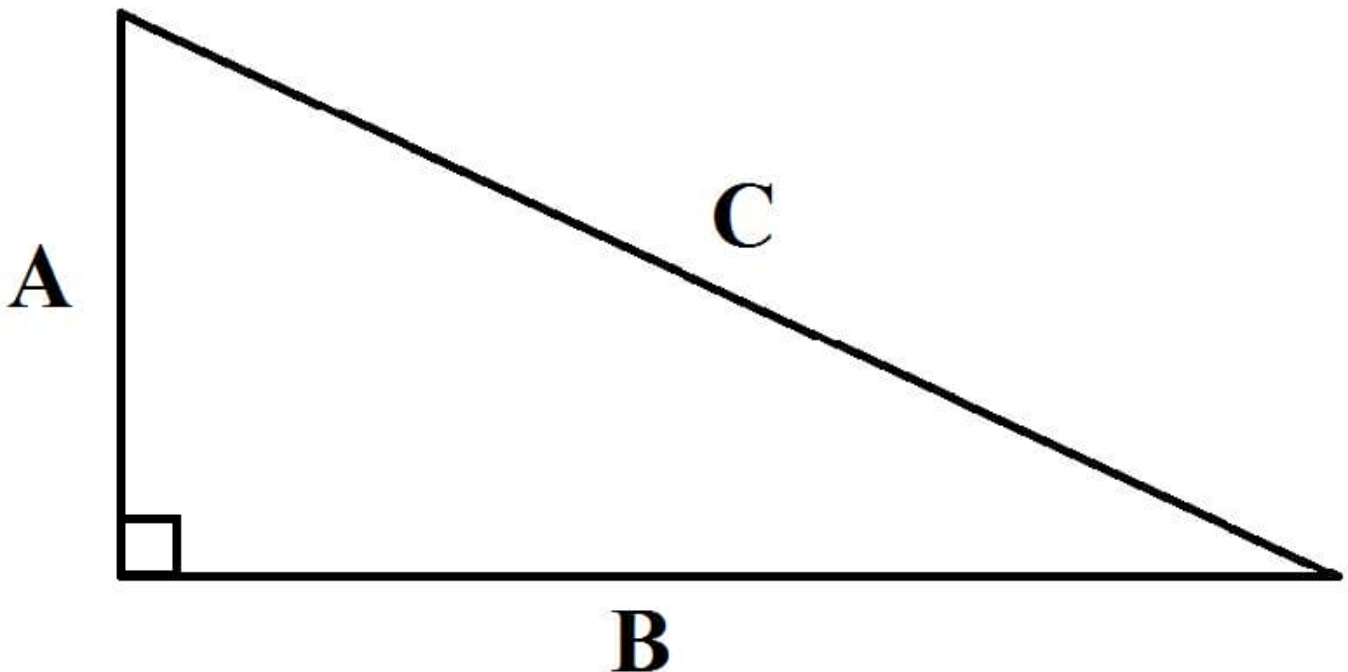
- A. real number
- B. imaginary number
- C. irrational number
- D. sloping number

Correct Answer: B

Explanation:

The square root of a negative number doesn't exist as far as real numbers are concerned. In mathematics, this is called an imaginary number.

QUESTION 2



Triangle ABC (shown above) is a(n) _____.

- A. right triangle
- B. equilateral triangle
- C. scalene triangle

D. isosceles triangle

Correct Answer: A

Explanation:

A right triangle has one right angle (one 90-degree angle).

QUESTION 3

Convert 520,000 to scientific notation.

A. 5.20×1000

B. 5.20×100

C. 5.20×10^5

D. 5.20×10^{-5}

Correct Answer: C

QUESTION 4

If $\frac{1}{3}$ of an office staff is on vacation and $\frac{1}{4}$ of those not on vacation are out sick, what fraction of the staff is in the office?

A. $\frac{1}{2}$

B. $\frac{1}{12}$

C. $\frac{1}{6}$

D. $\frac{1}{4}$

Correct Answer: A

Explanation: If $\frac{1}{3}$ are on vacation, then $\frac{2}{3}$ are not. Of those $\frac{2}{3}$ not on vacation, $\frac{3}{4}$ are NOT sick. Therefore $\frac{2}{3} \times \frac{3}{4}$ are in the office (not on vacation and not sick) = $(2 \times 3)/(3 \times 4) = \frac{6}{12} = \frac{1}{2}$

QUESTION 5

The sum of the measures of the angles of a trapezoid is _____.

A. 360 degrees

B. 540 degrees

C. 180 degrees

D. 720 degrees

Correct Answer: A

Explanation:

All quadrilaterals have angles that total 360 degrees.

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